

Author Index

Agarwal, V.R. and Sato, S.M.

Retinoic acid affects central nervous system development of *Xenopus* by changing cell fate (44) 167

Befort, J.-J., see Meyer, D. (44) 109

Befort, N., see Meyer, D. (44) 109

Boedigheimer, M., Bryant, P. and Laughon, A.

Expanded, a negative regulator of cell proliferation in *Drosophila*, shows homology to the NF2 tumor suppressor (44) 83

Breitman, M.L., see Raju, K. (44) 51

Bryant, P., see Boedigheimer, M. (44) 83

Bryant, P.J., see Woods, D.F. (44) 85

Bryce, D.M., see Raju, K. (44) 51

Busson, D., see Therond, P. (44) 65

Danker, K., Hacke, H., Ramos, J., DeSimone, D. and Wedlich, D.
V⁺-Fibronectin expression and localization prior to gastrulation in *Xenopus laevis* embryos (44) 155

Darnell, J.E., see Ruiz i Altaba, A. (44) 91

DeSimone, D., see Danker, K. (44) 155

Deutsch, A., Dress, A. and Rensing, L.

Formation of morphological differentiation patterns in the ascromycete *Neurospora crassa* (44) 17

Deutsch, J., see Laval, M. (44) 123

Dietrich, S., Schubert, F.R. and Gruss, P.

Altered *Pax* gene expression in murine notochord mutants: the notochord is required to initiate and maintain ventral identity in the somite (44) 189

Doe, C.Q., see Oliver, G. (44) 3

Dress, A., see Deutsch, A. (44) 17

Dubé, I.D., see Raju, K. (44) 51

Geisendorf, S., see Oliver, G. (44) 3

Grawe, F., see Wodarz, A. (44) 175

Gruss, P., see Dietrich, S. (44) 189

Gruss, P., see Oliver, G. (44) 3

Guillemet, E., see Therond, P. (44) 65

Hacke, H., see Danker, K. (44) 155

Hescheler, J., see Maltsev, V.A. (44) 41

Jessell, T.M., see Ruiz i Altaba, A. (44) 91

Kamel-Reid, S., see Raju, K. (44) 51

Knust, E., see Wodarz, A. (44) 175

Lamour-Isnard, C., see Therond, P. (44) 65

Laughon, A., see Boedigheimer, M. (44) 83

Laval, M., Pourrain, F., Deutsch, J. and Lepesant, J.-A.

In vivo functional characterization of an ecdysone response enhancer in the proximal upstream region of the *Fbp1* gene of *D. melanogaster* (44) 123

Lee, H., see Ramachandran, R.K. (44) 33

Lepesant, J.-A., see Laval, M. (44) 123

Limbourg-Bouchon, B., see Therond, P. (44) 65

Maltsev, V.A., Rohwedel, J., Hescheler, J. and Wobus, A.M.

Embryonic stem cells differentiate in vitro into cardiomyocytes representing sinusnodal, atrial and ventricular cell types (44) 41

Mavilio, F., see Moroni, M.C. (44) 139

Meyer, D., Wolff, C.-M., Stiegler, P., Sénan, F., Befort, N., Befort, J.-J. and Remy, P.

Xl-fli, the *Xenopus* homologue of the *fli-1* gene, is expressed during embryogenesis in a restricted pattern evocative of neural crest cell distribution (44) 109

Moroni, M.C., Vigano, M.A. and Mavilio, F.

Regulation of the human HOXD4 gene by retinoids (44) 139

Oliver, G., Sosa-Pineda, B., Geisendorf, S., Spana, E.P., Doe, C.Q. and Gruss, P.

Prox 1, a *prospero*-related homeobox gene expressed during mouse development (44) 3

Pourrain, F., see Laval, M. (44) 123

Preat, T., see Therond, P. (44) 65

Prezioso, V.R., see Ruiz i Altaba, A. (44) 91

Raju, K., Tang, S., Dubé, I.D., Kamel-Reid, S., Bryce, D.M. and Breitman, M.L.

Characterization and developmental expression of *Tlx-1*, the murine homolog of *HOX11* (44) 51

Ramachandran, R.K., Seid, C.A., Lee, H. and Tomlinson, C.R.

PDGF-BB and TGF- α rescue gastrulation, spiculogenesis, and LpS1 expression in collagen-disrupted embryos of the sea urchin genus *Lytechinus* (44) 33

Ramos, J., see Danker, K. (44) 155

Remy, P., see Meyer, D. (44) 109

Rensing, L., see Deutsch, A. (44) 17

Rohwedel, J., see Maltsev, V.A. (44) 41

Ruiz i Altaba, A., Prezioso, V.R., Darnell, J.E. and Jessell, T.M.

Sequential expression of HNF-3 β and HNF-3 α by embryonic organizing centers: the dorsal lip/node, notochord and floor plate (44) 91

Sato, S.M., see Agarwal, V.R. (44) 167

Schubert, F.R., see Dietrich, S. (44) 189

Seid, C.A., see Ramachandran, R.K. (44) 33

Sénan, F., see Meyer, D. (44) 109

Sosa-Pineda, B., see Oliver, G. (44) 3

Spana, E.P., see Oliver, G. (44) 3

Stiegler, P., see Meyer, D. (44) 109

Tang, S., see Raju, K. (44) 51

Terracol, R., see Therond, P. (44) 65

Therond, P., Busson, D., Guillemet, E., Limbourg-Bouchon, B.

Preat, T., Terracol, R., Tricoire, H. and Lamour-Isnard, C.

Molecular organisation and expression pattern of the segment polarity gene *fused* of *Drosophila melanogaster* (44) 65

Tomlinson, C.R., see Ramachandran, R.K. (44) 33

Tricoire, H., see Therond, P. (44) 65

Vigano, M.A., see Moroni, M.C. (44) 139

Wedlich, D., see Danker, K. (44) 155

Wobus, A.M., see Maltsev, V.A. (44) 41

Wodarz, A., Grawe, F. and Knust, E.

CRUMBS is involved in the control of apical protein targeting
during *Drosophila* epithelial development (44) 175

Wolff, C.-M., see Meyer, D. (44) 109

Woods, D.F. and Bryant, P.J.

ZO-1, DlgA and PSD-95/SAP90: homologous proteins in tight,
septate and synaptic cell junctions (44) 85

Subject Index

Action potential

Cardiomyocyte; Embryonic stem cell differentiation; Cardiac-specific gene expression (Maltsev, V.A. (44) 41)

Adhesion

Xenopus development; Fibronectin V-region (Danker, K. (44) 155)

Apical-basal polarity

Epithelia; EGF-like protein; *Drosophila*; Protein targeting (Wodarz, A. (44) 175)

Brachyury curtailed

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Brain

Retinoic acid; *Xenopus*; *XIPOU 1* (Agarwal, V.R. (44) 167)

Cardiac-specific gene expression

Cardiomyocyte; Embryonic stem cell differentiation; Action potential (Maltsev, V.A. (44) 41)

Cardiomyocyte

Embryonic stem cell differentiation; Cardiac-specific gene expression; Action potential (Maltsev, V.A. (44) 41)

Cell interaction

Drosophila; *fused*; Protein kinase; Segment polarity gene (Therond, P. (44) 65)

Cellular automaton

Differentiation process; Hypha; Experimental condition; Computer simulation; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

Central nervous system

Prox 1; *Prospero*; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Computer simulation

Differentiation process; Hypha; Experimental condition; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

Cyclic AMP

Differentiation process; Hypha; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Morphogen (Deutsch, A. (44) 17)

Danforth's short tail

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Pintail; Truncate (Dietrich, S. (44) 189)

Differentiation process

Hypha; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

D. melanogaster

20-Hydroxyecdysone; Ecdysone response element; Larval fat body (Laval, M. (44) 123)

Dorsal lip

Floor plate; HNF-3 α ; HNF-3 β ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

Dorsoventral patterning

Pax-1; Pax-3; T gene; Notochord; Somite; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Drosophila

Prox 1; *Prospero*; Central nervous system; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Cell interaction; *fused*; Protein kinase; Segment polarity gene (Therond, P. (44) 65)

Mammal; Imaginal disc; Tumor suppressor; *expanded* gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

Epithelia; Apical-basal polarity; EGF-like protein; Protein targeting (Wodarz, A. (44) 175)

Ecdysone response element

20-Hydroxyecdysone; *D. melanogaster*; Larval fat body (Laval, M. (44) 123)

EGF-like protein

Epithelia; Apical-basal polarity; *Drosophila*; Protein targeting (Wodarz, A. (44) 175)

Embryonic stem cell differentiation

Cardiomyocyte; Cardiac-specific gene expression; Action potential (Maltsev, V.A. (44) 41)

Epithelia

Apical-basal polarity; EGF-like protein; *Drosophila*; Protein targeting (Wodarz, A. (44) 175)

expanded gene

Drosophila; Mammal; Imaginal disc; Tumor suppressor; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

Experimental condition

Differentiation process; Hypha; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

Eye

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Fibronectin V-region

Xenopus development; adhesion (Danker, K. (44) 155)

Floor plate

Dorsal lip; HNF-3 α ; HNF-3 β ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

fused

Cell interaction; *Drosophila*; Protein kinase; Segment polarity gene (Therond, P. (44) 65)

Gastrulation

Sea urchin; Growth factor; LpS1 gene regulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

ets Gene family

Proto-oncogene; Transcription factor; In situ hybridization (Meyer, D. (44) 109)

Growth factor

Sea urchin; Gastrulation; LpS1 gene regulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

HNF-3 α

Dorsal lip; Floor plate; HNF-3 β ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

HNF-3 β

Dorsal lip; Floor plate; HNF-3 α ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

Homeobox

Murine homolog of HOX 11; In situ hybridization; *Tlx-1*; T-cell leukemia (Raju, K. (44) 51)

Homeobox gene

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Homeobox, Transcriptional regulation

Retinoic acid receptor; Retinoid X receptor (Moroni, M.C. (44) 139)

20-Hydroxyecdysone

Ecdysone response element; *D. melanogaster*; Larval fat body (Laval, M. (44) 123)

Hypha

Differentiation process; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

Imaginal disc

Drosophila; Mammal; Tumor suppressor; expanded gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

In situ hybridization

Murine homolog of HOX 11; *Tlx-1*; Homeobox; T-cell leukemia (Raju, K. (44) 51)

Proto-oncogene; ets Gene family; Transcription factor (Meyer, D. (44) 109)

Larval fat body

20-Hydroxyecdysone; Ecdysone response element; *D. melanogaster* (Laval, M. (44) 123)

LpS1 gene regulation

Sea urchin; Growth factor; Gastrulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

Mammal

Drosophila; Imaginal disc; Tumor suppressor; expanded gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

Morphogen

Differentiation process; Hypha; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP (Deutsch, A. (44) 17)

Mouse mutant

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Murine homolog of HOX 11

In situ hybridization; *Tlx-1*; Homeobox; T-cell leukemia (Raju, K. (44) 51)

Muscle

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas (Oliver, G. (44) 3)

Neuroblast

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Pancreas; Muscle (Oliver, G. (44) 3)

Neurofibromatosis type 2

Drosophila; Mammal; Imaginal disc; Tumor suppressor; expanded gene (Boedigheimer, M. (44) 83)

Neurospora crassa

Differentiation process; Hypha; Experimental condition; Computer simulation; Cellular automaton; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

Node

Dorsal lip; Floor plate; HNF-3 α ; HNF-3 β ; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

Notochord

Dorsal lip; Floor plate; HNF-3 α ; HNF-3 β ; Node; Organizer (Ruiz i Altaba, A. (44) 91)

Pax-1; Pax-3; T gene; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Organizer

Dorsal lip; Floor plate; HNF-3 α ; HNF-3 β ; Node; Notochord (Ruiz i Altaba, A. (44) 91)

Pancreas

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Muscle (Oliver, G. (44) 3)

Pax-1

Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Pax-3

Pax-1; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Pintail

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Truncate (Dietrich, S. (44) 189)

Prospero

Prox 1; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Protein kinase

Cell interaction; *Drosophila*; *fused*; Segment polarity gene (Therond, P. (44) 65)

Protein targeting

Epithelia; Apical-basal polarity; EGF-like protein; *Drosophila* (Wodarz, A. (44) 175)

Proto-oncogene

ets Gene family; Transcription factor; In situ hybridization (Meyer, D. (44) 109)

Prox 1

Prospero; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Retinoic acid

Xenopus; Brain; *XIPOU 1* (Agarwal, V.R. (44) 167)

Retinoic acid receptor

Retinoid X receptor; Homeobox, Transcriptional regulation (Moroni, M.C. (44) 139)

Retinoid X receptor

Retinoic acid receptor; Homeobox, Transcriptional regulation (Moroni, M.C. (44) 139)

Sea urchin

Growth factor; Gastrulation; LpS1 gene regulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

Segment polarity gene

Cell interaction; *Drosophila*; *fused*; Protein kinase (Therond, P. (44) 65)

Somite

Pax-1; Pax-3; T gene; Notochord; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Spiculogenesis

Sea urchin; Growth factor; Gastrulation; LpS1 gene regulation (Ramachandran, R.K. (44) 33)

T-cell leukemia

Murine homolog of *HOX 11*; In situ hybridization; *Tlx-1*; Homeobox (Raju, K. (44) 51)

T gene

Pax-1; Pax-3; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

Tlx-1

Murine homolog of *HOX 11*; In situ hybridization; Homeobox; T-cell leukemia (Raju, K. (44) 51)

Transcription factor

Proto-oncogene; *ets* Gene family; In situ hybridization (Meyer, D. (44) 109)

Truncate

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail (Dietrich, S. (44) 189)

Tumor suppressor

Drosophila; Mammal; Imaginal disc; *expanded* gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

Xenopus

Retinoic acid; Brain; *XIPOU 1* (Agarwal, V.R. (44) 167)

***Xenopus* development**

Fibronectin V-region; adhesion (Danker, K. (44) 155)

XIPOU 1

Retinoic acid; *Xenopus*; Brain (Agarwal, V.R. (44) 167)

